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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/584,271	05/22/2007	Yusuke Hiraishi	12137-0004	5606	
22902 7590 12/24/2009 CLARK & BRODY		EXAMINER			
1090 VERMONT A VENUE, NW SUITE 250 WASHINGTON, DC 20005			JENNINGS, STEPHANIE M		
			ART UNIT	PAPER NUMBER	
	. ,		3725		
			MAIL DATE	DELIVERY MODE	
			12/24/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/584,271	HIRAISHI, YUSUKE		
Examiner	Art Unit		
Stephanie Jennings	3725		

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	Stephanie Jennings	3725					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provision of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If No period for reply is specified above, the mannum statutory period verified period for reply within the set or extended period for reply with the state of the set of the s	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this of (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 22 M	ay 2007.						
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-14 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-14</u> is/are rejected.							
Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on 22 May 2007 is/are: a)	☑ accepted or b) ☐ objected to b	y the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓO-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	Interview Summary Paper No(s)/Mail Da	(PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(c) (FTO/SS/CS)	5) Notice of Informal F						
Paper No(s)/Mail Date See Continuation Sheet.	6) Other:						

Paper No(s)/Mail Date See Continuation Sheet.

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :24 June 2009, 09 July 2008, 08 July 2008, 02 November 2007, 23 June 2006.

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DETAILED ACTION

Specification

 The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Litz et al. US Patent No. 3,823,599 in view of Japanese Patent Application Publication JP 10-028902, Japanese Patent Application Publication O9292094, and Japanese Patent Application Publication JP 11035967. In regard to claim 1, Litz discloses a system for supplying lubricant to a pair of disk rolls (10, 13) with a spray nozzle (14) provided at the tip of the plumbing extended to a position near the disk rolls (column 2, lines 6-7). Litz does not disclose a storage tank. In regard to claim 1, Japanese Patent Application Publication JP 09292094 teaches an oil tank (7) with an end for discharging oil and a device (8, 9, or 30) for switching flow to the direction to the storage tank. It would have been obvious to one skilled in the art at the time of invention

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to provide Litz's device with a storage tank of JP 09292094 because this allows for extra lubricant to be stored during operation. Litz in view of JP 09292094 does not disclose a device for switching flow direction or a device for releasing pressure in the plumbing. In regard to claim 1, Japanese Patent Application Publication JP 10-028902 teaches a device for adjusting the flow of the lubricant. It would have been obvious to one skilled in the art at the time of invention to provide Litz in view of JP 09292094 with the adjusting device because this provides for more efficient lubrication. Litz in view of JP 10-028902 and JP 09292094 does not disclose a device for releasing pressure in the plumbing. In regard to claim 1, Japanese Patent Application Publication JP 11035967 A teaches a guide shoe that releases and controls the pressure. It would have been obvious to one skilled in the art at the time of invention to provide the device of Litz in view of JP 10-028902 and JP 09292094 with the pressure controlling apparatus of JP 11035967 A because this prevents a pressure buildup.

- In regard to claim 2, JP 09292094 teaches a disk like rotary member that can be pushed at a variable to rate so that oil lubricant is expelled from the outlet.
- In regard to claims 3 and 12, JP 10-028902 teaches a spray nozzle that can be flexibly configured. The spray nozzles of JP 10-028902 are capable of being moved if the disc rolls move.
- Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Litz in view of JP 10-028902, JP 0929094 and JP 11035967 A as applied to claim 1 above, and further in view of Jain US Patent No. 6,330,818.

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Litz in view of JP 10-028902, JP 0929094 and JP 11035967 A does not disclose
a device for cleaning the lubricant piping.

- In regard to claim 4, Jain teaches cleaning of the lubricant piping (column 5, lines 26-30).
- 9. It would have been obvious to one skilled in the art to provide the device of Litz in view of JP 10-028902, JP 0929094 and JP 11035967 A with the cleaning system of Jain because cleaning the lubricant piping system regularly prevents clogging of the nozzle.
- Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Litz in view of JP 10-028902, JP 0929094 and JP 11035967 A as applied to claim 1 above, and further in view of JP 05214358.
- Litz in view of JP 10-028902, JP 0929094 and JP 11035967 A does not disclose a device for supplying a solidifier of solidifying the lubricant.
- 12. In regard to claim 5, JP 05214358 teaches blending to obtain 100 parts by weight with one or more solid lubricants with 0-500 parts by weight water dispersion type polymer and 60-350 parts by weight water dissolution type polymer to obtain a lubricant composition. It would have been obvious to one skilled in the art to provide a method of solidification to the lubricant, because a solidified lubricant would be easier to apply to the rolls.
- Claims 6-8, 10-11, 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorifuji et al. 5,983,689 in view of Japanese Patent Application

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Publication JP 10-028902, Japanese Patent Application Publication 09292094, and Japanese Patent Application Publication JP 11035967.

- In regard to claim 6, Yorifuji discloses a piercing mill with a plug (3), and a pair of disc rolls (2, 2') (column 4, lines 27-35).
- 15. Yorifuji in view of JP 09292094 does not disclose a device for switching flow direction or a device for releasing pressure in the plumbing or a storage tank. In regard to claim 6, Japanese Patent Application Publication JP 09292094 teaches an oil tank (7) with an end for discharging oil and a device (8, 9, or 30) for switching flow to the direction to the storage tank. It would have been obvious to one skilled in the art at the time of invention to provide Yorifuji's device with a storage tank of JP 09292094 because this allows for extra lubricant to be stored during operation.
- 16. Yorifuji in view of JP 09292094 does not disclose a device for switching flow direction or a device for releasing pressure in the plumbing. In regard to **claim 6**, Japanese Patent Application Publication JP 10-028902 teaches a device for adjusting the flow of the lubricant. It would have been obvious to one skilled in the art at the time of invention to provide Yorifuji in view of JP 09292094 with the adjusting device because this provides for more efficient lubrication. Yorifuji in view of JP 10-028902 and JP 09292094 does not disclose a device for releasing pressure in the plumbing. In regard to **claim 6**, Japanese Patent Application Publication JP 11035967 A teaches a guide shoe that releases and controls the pressure. It would have been obvious to one skilled in the art at the time of invention to provide the device of Yorifuji in view of JP 10-

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028902 and JP 09292094 with the pressure controlling apparatus of JP 11035967 A because this prevents a pressure buildup.

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- In regard to claim 7, JP 10-028902 teaches a spray nozzle with a multiaxial arm
 (60).
- 18. In regard to claims 8 and 10, Yorifuji discloses a method of manufacturing seamless pipes or tubes by using a piercing mill having a pair of disc rolls while supplying a lubricant to the disc rolls, comprising: supplying the lubricant to the disc rolls during piercing; circulating the lubricant in a plumbing when piercing is not performed; and releasing pressure of the lubricant in the plumbing near a spraying port to the disc rolls and spraying the lubricant from the inlet side of the piercing mill (page 2, lines 63-70).
- In regard to claims 11 and 14, Yorifuji discloses a method for manufacturing a seamless pipe part (column 1, lines 8-14).
- 20. Claims 9 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yorifuji in view of Japanese Patent Application Publication JP 10-028902, Japanese Patent Application Publication 09292094, and Japanese Patent Application Publication JP 11035967 as applied to claim 8 above, and further in view of Ginzburg US Patent No. 5,460,023.
- Yorifuji in view of Japanese Patent Application Publication JP 10-028902,
 Japanese Patent Application Publication 09292094, and Japanese Patent Application

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Publication JP 11035967 does not disclose orienting the nozzles at angles of five degrees from a center plane parallel to the disc rolls.

- In further regard to claim 9, Ginzburg teaches determination of an optimum spray angle from 3° to 10° (abstract and column 2, lines 12-21).
- 23. It would have been obvious to one of ordinary skill in the art to provide the device of Yorifuji in view of Japanese Patent Application Publication JP 10-028902, Japanese Patent Application Publication 09292094, and Japanese Patent Application Publication JP 11035967 with the spray nozzle angular configuration ability of Ginzburg because this allows for comprehensive lubrication application to the disc rolls.
- In regard to claim 13, Yorifuji teaches a method for manufacturing a seamless pipe part (column 1, lines 8-14).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephanie Jennings whose telephone number is (571) 270-7392. The examiner can normally be reached on Monday-Thursday, 7 am - 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dana Ross can be reached on (571) 272-4480. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. J./ Examiner, Art Unit 3725 December 17, 2009 /Edward Tolan/ Primary Examiner, Art Unit 3725